

## SCALE DRAWINGS

Your goal is to measure 13 objects in our classroom and draw a scale drawing of the room. The scale drawing will be a top-view or a footprint of our classroom.

Measure the following items in the room. Remember you are measuring in feet, but using a yard stick...be careful! Measure objects to the nearest half foot.

**DAY 1:** With a partner, get all the objects measured, set up a proportion and solve for scale drawings.

**DAY 2:** Individually, draw a scale drawing of the classroom, with all objects labeled.

Object:	Length Proportion: $\frac{1/4 \text{ in}}{1 \text{ ft}} = \frac{\text{in.}}{\text{ft}}$	If needed Width Proportion: $\frac{1/4 \text{ in}}{1 \text{ ft}} = \frac{\text{in.}}{\text{ft}}$	NEW LENGTH MEASUREMENT	NEW WIDTH MEASUREMENT
1. Black cabinet behind teacher desk	5.5 feet	3 feet		
2. Student desks (Do you think you need to measure each desk?)	2 feet	1.5 feet		
3. Teacher desk	5 feet	2.5 feet		
4. Computer table	5 feet	2.5 feet		

<b>5. Missing work table</b>	<b>4.5 feet</b> <b>THIS IS A TRAPEZOID</b>	<b>2 feet</b>		
<b>6. Table with turn-in baskets</b>	<b>5 feet</b>	<b>2 feet</b>		
<b>7. Blue Cabinet</b>	<b>4 feet</b>	<b>2 feet</b>		
<b>8. Front wall</b>	<b>30.5 Feet</b>	<b>NO WIDTH NEEDED</b>		<b>NO WIDTH NEEDED</b>
<b>9. Back wall</b>	<b>41.5 Feet</b>	<b>NO WIDTH NEEDED</b>		<b>NO WIDTH NEEDED</b>
<b>10. North wall</b> (Assume this wall continues straight and connects to the front wall)	<b>28 Feet</b>	<b>NO WIDTH NEEDED</b>		<b>NO WIDTH NEEDED</b>
<b>11. South wall</b>	<b>30.5 Feet</b>	<b>NO WIDTH NEEDED</b>		<b>NO WIDTH NEEDED</b>
<b>12. Windows</b>	<b>10.5 Feet</b>	<b>NO WIDTH NEEDED</b>		<b>NO WIDTH NEEDED</b>
<b>13. Door to Mr.</b>				

Vogt's room	NO LENGTH NEEDED	3 Feet	NO LENGTH NEEDED	
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